


Express Mail Label No. EV832843177US

PTO-1390 (Rev. 12-2004)  
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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>630666.00007</b>
INTERNATIONAL APPLICATION NO. <b>PCT/US2004/020842</b>	INTERNATIONAL FILING DATE <b>29 Jun 2004 (29.06.04)</b>	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/562,591</b>
TITLE OF INVENTION <b>HYDROXYAPATITE GRAFTED FUMARATE BASED MACROMERS FOR BIODEGRADABLE COMPOSITES</b>		PRIORITY DATE CLAIMED <b>01 Jul 2003 (01.07.03)</b>
APPLICANT(S) FOR DO/EO/US <b>YASZEMSKI, Michael J.; CURRIER, Bradford L.; JABBARI, Esmail; LU, Lichun</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p style="margin-left: 40px;">Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: <b>Copy of 371 Formalities Notice; Response to 371 Notice; Amendment; Postcard Receipt</b></p>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/562,591</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US2004/020842</b>		ATTORNEY'S DOCKET NUMBER <b>630666.00007</b>	
21. The following fees are submitted:					
<input type="checkbox"/> a) Basic national fee.....				<b>\$300.00</b>	\$
<input type="checkbox"/> b) Examination fee.....				<b>\$200.00</b>	\$
<input type="checkbox"/> c) Search fee.....				<b>\$500.00</b>	\$
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1000.00</b>	\$
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250.00	\$	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	- 20 =		x \$50.00	\$	
Independent claims	- 3 =		x \$200.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.					
<b>SUBTOTAL =</b>				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	130.00
<b>TOTAL NATIONAL FEE =</b>				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
<b>TOTAL FEES ENCLOSED =</b>				\$	130.00
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>17-0055</u> in the amount of \$ <u>130.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>17-0055</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>QUARLES &amp; BRADY LLP</b> 411 E. Wisconsin Ave. Milwaukee, WI 53202 (414) 277-5000 (414) 271-3552 (Fax)</p> </div> <div style="width: 45%; text-align: right;"> <p> _____ SIGNATURE Richard T. Roche _____ NAME 38,599 _____ REGISTRATION NUMBER</p> </div> </div>					

EXPRESS MAIL LABEL NO. EV832843177US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

USSN: 10/562,591  
PCT Application: PCT/US04/20842  
I.A. Filing Date: 29 June 2004  
Priority Date: 01 July 2003  
Applicant: Yaszemski, et al.  
Title: HYDROXYAPATITE GRAFTED FUMARATE BASED  
MACROMERS FOR BIODEGRADABLE COMPOSITES  
Docket No.: 630666.00007

UNITED STATES PATENT AND  
TRADEMARK OFFICE  
P.O. BOX 1450  
Alexandria, VA 22313-1450

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RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS  
UNDER 35 U.S.C. 371

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Dear Sir:

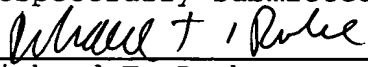
In response to the Notification of Missing Requirements Under 35 U.S.C. 371 under date of mailing of 20 April 2006, a copy of which is attached hereto and incorporated herein by reference, applicants hereby provide the following information and/or documentation:

1. Combined Declaration for Patent Application and Power of Attorney signed by Applicants Michael J. Yaszemski, Bradford L. Currier, Esmail Jabbari, and Lichun Lu.
2. Amendment cancelling claims 18-25 and adding new claims 26-33, thereby removing the multiple dependent claims and the necessity to pay the additional claim fees in the amount of \$4360.00.
3. At the time this application was filed, Applicant incorrectly paid the amount of \$700.00 for claim fees for 22 claims. However, there were 25 claims in said application at the time of filing. Therefore, an additional \$150.00 is due in payment for said claim fees.

The Commissioner is hereby authorized to charge Deposit Account 17-0055 in the amount of \$280.00 for the fee required for furnishing the oath or declaration later than 30 months from the earliest claimed priority date pursuant to 37 CFR 1.492(3). The Commissioner is further authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 17-0055.

13 June 2006

Respectfully submitted,

By:   
Richard T. Roche  
QUARLES & BRADY LLP  
411 East Wisconsin Avenue  
Milwaukee, WI 53202  
Reg. No.: 38,599  
(414) 277-5805



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/562,591	FIRST NAMED APPLICANT Michael J Yaszemski	ATTY. DOCKET NO. 630666.00007
INTERNATIONAL APPLICATION NO. PCT/US04/20842		
I.A. FILING DATE 06/29/2004	PRIORITY DATE 07/01/2003	

Quarles & Brady  
 411 E Wisconsin Avenue  
 Milwaukee, WI 53202

CONFIRMATION NO. 8565  
 371 FORMALITIES LETTER



Date Mailed: 04/20/2006

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 12/28/2005
- Copy of the International Search Report filed on 12/28/2005
- Information Disclosure Statements filed on 12/28/2005
- U.S. Basic National Fees filed on 12/28/2005
- Priority Documents filed on 12/28/2005
- Specification filed on 12/28/2005
- Claims filed on 12/28/2005
- Abstracts filed on 12/28/2005
- Drawings filed on 12/28/2005

QUARLES & BRADY LLP  
 Intellectual Property Dept.  
 RECEIVED: 4.25.06  
 RESPONSE DUE: \_\_\_\_\_

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Additional claim fees of \$4360 as a non-small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

## SUMMARY OF FEES DUE:

Total additional fees required for this application is \$4490 for a Large Entity:

- \$130 Surcharge.
- Total additional claim fee(s) for this application is \$ 4360
  - \$4000 for 82 total claims over 20.
  - \$360 for multiple dependent claim surcharge.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

VONDA M WALLACE

Telephone: (703) 308-9140 EXT 225

## PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/562,591	PCT/US04/20842	630666.00007